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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/000,220	12/04/2001	Huey-Huey Lo	Q67576	9180	
7:	590 06/25/2003				
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213			EXAMINER SERGENT, RABON A		
		•	1711		
			DATE MAILED: 06/25/2003	3	

Please find below and/or attached an Office communication concerning this application or proceeding.

•					CK				
		Application No.		Applicant(s)					
		10/000,220		LO ET AL.	V				
· Office Action S	ummary	Examin r		Art Unit					
		Rabon Sergent		1711					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1) Responsive to commu	unication(s) filed on	<u> </u>							
2a) This action is FINAL .	2b)⊠ TI	nis action is non-fi	nal.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims									
4)⊠ Claim(s) <u>1-50</u> is/are pe	ending in the applicatio	n.							
4a) Of the above claim(s) is/are withdrawn from consideration.									
5) Claim(s) is/are a	allowed.								
6)⊠ Claim(s) <u>1-50</u> is/are rej	ected.								
7) Claim(s) is/are o	objected to.	·							
8) Claim(s) are sub	pject to restriction and/o	or election require	ment.						
9) The specification is obje	ected to by the Examine	er.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12) The oath or declaration	is objected to by the Ex	xaminer.							
Priority under 35 U.S.C. §§ 119	and 120								
13) Acknowledgment is ma	ide of a claim for foreig	n priority under 35	5 U.S.C. § 119(a))-(d) or (f).					
a)⊠ All b)□ Some * c)[☐ None of:								
1.⊠ Certified copies of	of the priority documen	ts have been rece	ived.						
2. Certified copies	of the priority documen	ts have been rece	ived in Application	on No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
14) ☐ Acknowledgment is mad	e of a claim for domest	tic priority under 3	5 U.S.C. § 119(e) (to a provisiona	l application).				
a) The translation of t 15) Acknowledgment is mad Attachment(s)									
1) Notice of References Cited (PTO-6 2) Notice of Draftsperson's Patent Dr 3) Information Disclosure Statement(awing Review (PTO-948)	4) 5) 6) 		(PTO-413) Paper No atent Application (PT					
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office A	ction Summary		Part of Paper No. 3					

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1. Claims 1-50 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

Applicants have failed to specify the bases for the weight percent set forth within claims

1, 18, and 35. Furthermore, it is unclear if the weight percents are to sum to 100 percent.

Within claim 1, components (c) and (d) are not mutually exclusive; therefore, it is unclear

if a single reactant can be used for both (c) and (d).

The subject matter of claims 13, 30, and 47 is ambiguous, because the claims specify that

component (b) is capable of forming a hydrophilic group. While this statement is accurate for

the ionic groups, it is inaccurate to state that the compound is capable of forming an oxyethylene

group. The oxyethylene group is an integral group within the compound, being present from the

instant of polyol production.

Within claims 18 and 35, it is unclear if the chain extender (d) is an optional component,

in view of the proviso denoted by "when". It is unclear how to interpret the claim if the NCO

content exceeds 8.0 weight percent or is less than 0.8 weight percent.

Within claims 1-34, it is unclear if the "aqueous polyurethane" is a polyurethane aqueous

dispersion.

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2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made

to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be

negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the

claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

claims was commonly owned at the time any inventions covered therein were made absent any

evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

the inventor and invention dates of each claim that was not commonly owned at the time a later

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c)

and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1-4, 6, 9, 11-21, 23, 26, and 28-34 are rejected under 35 U.S.C. 102(b) as being

anticipated by Coogan ('644).

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Patentee discloses aqueous polyurethane dispersions comprising the reaction product of a prepolymer, derived from an aromatic diisocyanate, a polyol, and a hydrophilic group containing polyol, with a chain extender. The disclosed reactants, quantities of reactants, and properties of the dried film read on those set forth by applicants. See columns 1-5 and examples. In accordance with Office practice, applicants' product-by-process claims have been examined as products, since there is no evidence on the record that the process yields products having a patentable distinction.

4. Claims 5, 7, 8, 10, 22, 24, 25, 27, and 35-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Coogan ('644) in view of Markusch et al. ('322).

As aforementioned, Coogan discloses aqueous polyurethane dispersions comprising the reaction product of a prepolymer, derived from an aromatic diisocyanate, a polyol, and a hydrophilic group containing polyol, with a chain extender.

5. Coogan differs from applicants' claims in two respects. Firstly, though the teachings of Coogan suggest a preference for the use of aromatic polyisocyanates, Coogan is largely silent regarding the use of aromatic polyisocyanates other than TDI and MDI. However, the position is taken that applicants' claimed polyisocyanates are conventional aromatic polyisocyanates, known to be useful in the urethane art at the time of invention, and, as a result, it would have been obvious to incorporate them into the composition of Coogan. Secondly, Coogan fails to disclose the sequential reaction of the hydrophilic group containing polyol and additional polyol in the

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preparation of the prepolymer. However, this reaction sequence was known at the time of invention. See column 13, lines 28-39 within Markusch et al. Markusch et al. further teaches that the order of reaction is not critical. In view of these secondary teachings, the position is taken that it would have been obvious to react the components in any sequence, including the sequence claimed by applicants.

Any inquiry concerning this communication should be directed to R. Sergent at telephone number (703) 308-2982.

RABON SERGENT PRIMARY EXAMINER

R. Sergent

June 24, 2003